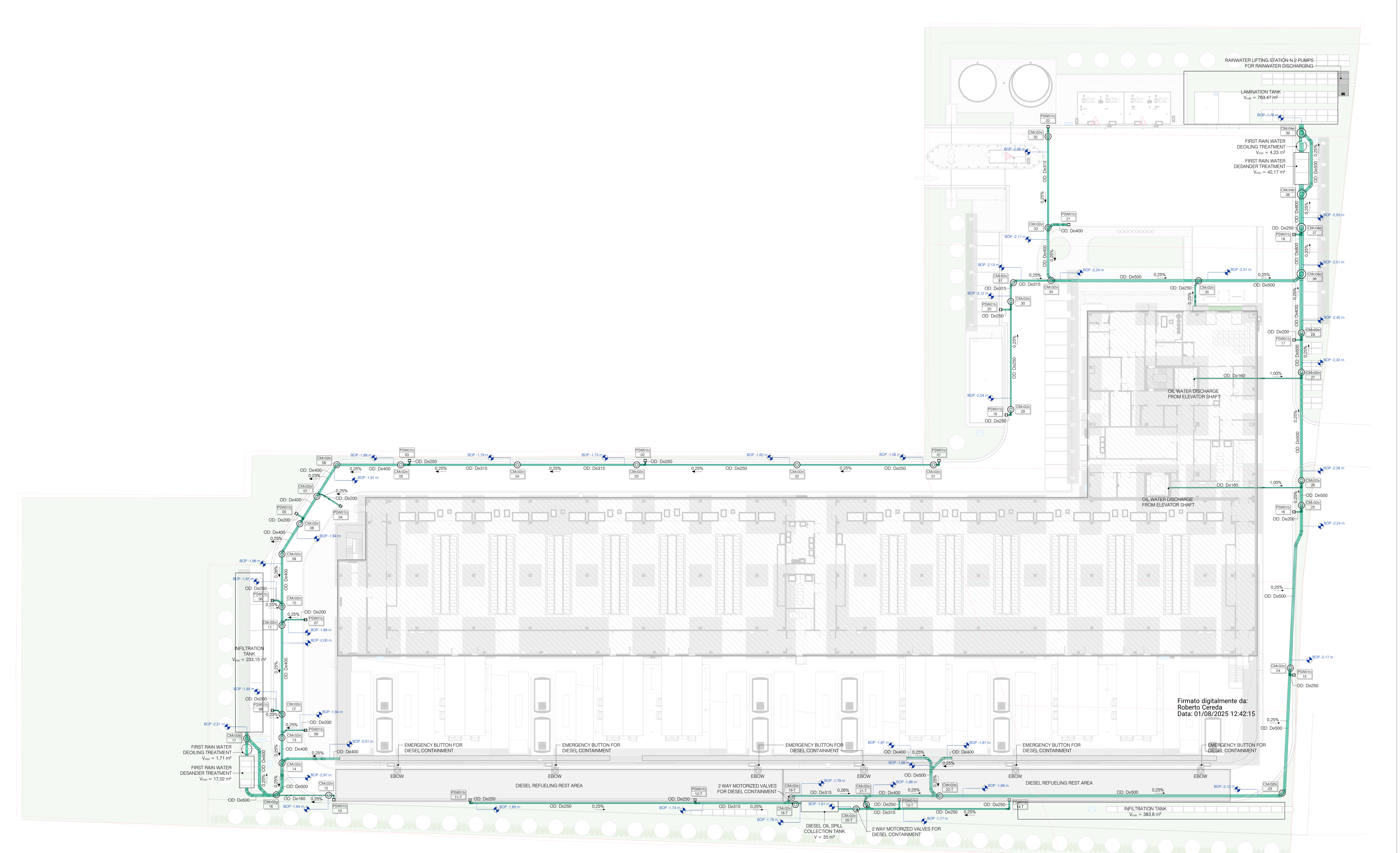

RAINWATER LIFTING STATION N.2 PUMPS
FOR RAINWATER DISCHARGING
LAMINATION TANK
V_{min} = 763,47 m³
FIRST RAIN WATER
DEOILING TREATMENT
V_{min} = 4,23 m³
FIRST RAIN WATER
DESANDER TREATMENT
V_{min} = 42,17 m³
OIL WATER DISCHARGE
FROM ELEVATOR SHAFT
OIL WATER DISCHARGE
FROM ELEVATOR SHAFT
INFILTRATION
TANK
V_{min} = 233,15 m³
FIRST RAIN WATER
DEOILING TREATMENT
V_{min} = 1,71 m³
FIRST RAIN WATER
DESANDER TREATMENT
V_{min} = 17,02 m³
EMERGENCY BUTTON FOR
DIESEL CONTAINMENT
EBOW
DIESEL REFUELING REST AREA
2 WAY MOTORIZED VALVES
FOR DIESEL CONTAINMENT
DIESEL OIL SPILL
COLLECTION TANK
V = 35 m³
2 WAY MOTORIZED VALVES FOR
DIESEL CONTAINMENT
INFILTRATION TANK
V_{min} = 383,8 m³
OD: De160
OD: De200
OD: De250
OD: De315
OD: De400
OD: De500
OD: De630
OD: De800
0,25%
0,26%
1,00%
BOP -1,56 m
BOP -1,60 m
BOP -1,62 m
BOP -1,73 m
BOP -1,74 m
BOP -1,77 m
BOP -1,78 m
BOP -1,79 m
BOP -1,81 m
BOP -1,86 m
BOP -1,87 m
BOP -1,88 m
BOP -1,89 m
BOP -1,91 m
BOP -1,93 m
BOP -1,94 m
BOP -1,96 m
BOP -2,00 m
BOP -2,04 m
BOP -2,08 m
BOP -2,10 m
BOP -2,12 m
BOP -2,13 m
BOP -2,17 m
BOP -2,24 m
BOP -2,26 m
BOP -2,31 m
BOP -2,32 m
BOP -2,40 m
BOP -2,51 m
BOP -2,53 m
BOP -2,97 m
BOP -0,51 m
CMc02e
CMc02g
CMc04e
PSW01b

Firmato digitalmente da:
Roberto Cereda
Data: 01/08/2025 12:42:15

Oilwater Drainage System
1 : 250

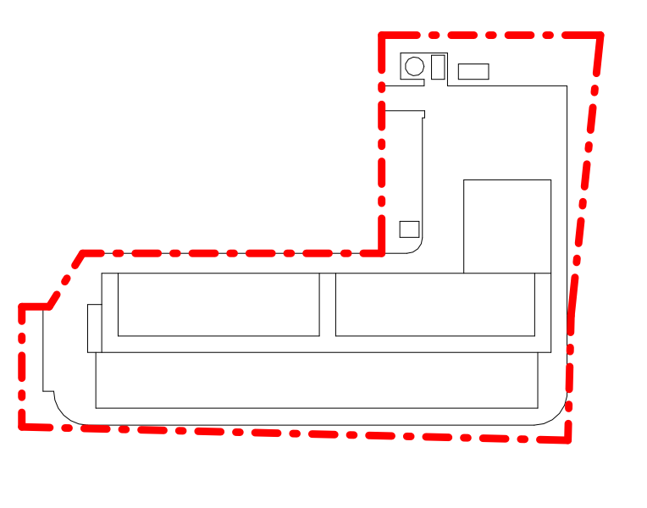
General Notes

1. This drawing has been checked in accordance with Black & White Engineering (B&W) QA checking procedures.
2. Do not scale from this drawing. All dimensions indicated are in millimeters unless otherwise stated. Validate all measurements on site.
3. All plant and equipment dimensions are typical. The Contractor should show actual, approved plant and equipment sizes.
4. This drawing is to be read in conjunction with all relevant B&W MEP specifications, schedules and standard key to symbols sheet.
5. Any discrepancies between the drawings and other documents should be brought to the attention of the engineer.
6. This drawing is not an installation drawing. It is the Contractors responsibility to make final coordinated installation shop drawings.
7. Final ceiling coordination subject to interior design package.
8. Contractor to coordinate final distribution routes with available sleeves and openings in beams / structure.
9. The contents of this drawing shall be read in conjunction with the current revisions of other relevant Architectural, Structural, Mechanical and Electrical drawings and all relevant sections of the specifications.

2500 0 2500 5000 7500 10000
SCALE: 1:250

N

Key Plan



Legend: Pipe Systems

OD 🟩 Oil water

BOP -2,35 m — Bottom of pipe's quote - BOP

Manhole Tag

Object code → PXXX
Height → XXX
YYY ← progessive number

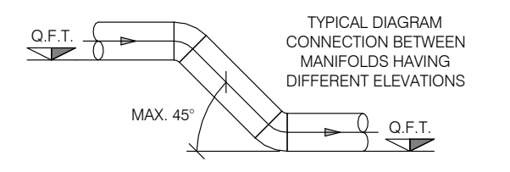
Object code → DXXX
Progressive number → DXXX

5300 Schedule Plumbing Fixtures				
Type Mark	Length	Width	Diameter	Height
CMc02e			600,00	
CMc02g			600,00	
CMc04e			850,00	
PSW01b	500,00	500,00		500,00

NOTES PLUMBING AND DRAINAGE SYSTEMS:

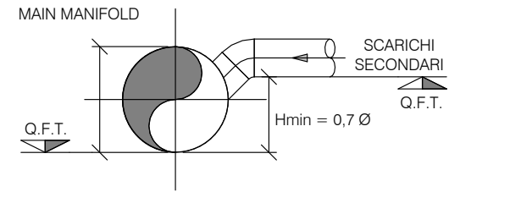
- Supply piping for the water and sanitary utilities within the toilets will be made of multilayer from manifolds.
- In case of supply not derived from manifold, place recessed shut-off taps with cap for each water utility.
- Provide vents at high points and drains (connected to prepared manholes or conduits) at low points, in locations agreed with the DL.
- All drain risers should be equipped with inspectable siphon at the foot, extended above the roof and adequately ventilated.
- Condensate water collection networks must be separate and distinct from those into which they flow by the interposition of permanently wet or dry inspectable odor trap.
- Graywater collection networks must be separate and distinct from those into which they flow by the interposition of an inspectable siphon.
- Stormwater collection networks shall be separate and distinct from blackwater to the collection sumps located upstream of the Inspection/Siphon/Brace unit feeding to the public sewer.
- All discharges collected below the level of discharge to the public sewer shall be conveyed to collection and lifting tanks equipped with electric pumps.
- Testing operations should be carried out while keeping the drainage network continuously visible.
- Provide inspection points in manifolds upstream of each confluence, bend or special piece.
- All discharge pipes, both main and secondary, except where otherwise indicated, shall have the following minimum slopes:

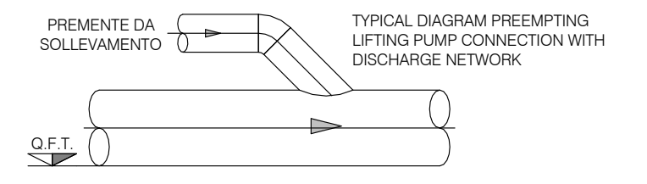
service drains to sewer risers	i=2%.
blackwater / grease collectors	i=1%.
stormwater / condensate manifolds	i=0.5%.


Q.F.T.
MAX. 45°
Q.F.T.

TYPICAL DIAGRAM
CONNECTION BETWEEN
MANIFOLDS HAVING
DIFFERENT ELEVATIONS

TYPICAL DIAGRAM DRAINS CONNECTIONS SECONDARY TO MAIN MANIFOLD


SCARICHI
SECONDARI
Q.F.T.
Hmin = 0,7 Ø
Q.F.T.


PREMENTE DA
SOLLEVAMENTO
Q.F.T.

TYPICAL DIAGRAM PREEMPTING
LIFTING PUMP CONNECTION WITH
DISCHARGE NETWORK

GENERAL NOTES:
- Drawing valid only for mechanical installations under contract.
- All measurements and locations of materials and equipment are to be verified on site by the contractor, who shall promptly report any interference with existing.
- Any undetected equipment shall be maintained; if necessary, it shall be modified and restored by the contractor.
- Exact locations of equipment, materials, piping, ducts, connection to existing facilities shall be determined by the contractor and submitted to the construction manager.
- Final sizing according to the manufacturer of the equipment and materials actually installed.
- All equipment must be easily maintainable and accessible via trapdoors or similar solutions even where not specifically specified.
- It will be the contractor's responsibility to size and asseverate all supports, in a workmanlike manner and in compliance with all regulatory requirements for earthquake-proofing.
- Construction detail drawings necessary for the proper execution of the work shall be arranged by the contractor.
- The installation of elements in the field must comply with all manufacturers' prescriptions and recommendations, good engineering rules on acoustics and fire prevention.
- All planned and described interventions, evaluated on the basis of the available documentation, should be re-evaluated and deepened during the works, after plant verification following appropriate surveys of the existing situation.
- The contractor must carefully check the design and report any inaccuracies, incompleteness or discrepancies with any standard or law.
-Connections between two or more sections of duct both with indoor units and with ducts themselves, shall be made only with invitation fittings and not wit hammered derivations or detachments. The Contractor shall be responsible for making construction drawings showing the type of derivations and connections between ducts and ducts with the indoor units provided.

Rev	Details	By / Chkd / App	Date
P02	STAGE 3 - 100% ISSUE	L22	28/02/2025
P01	STAGE 2	L22	11/10/2024

Client

STACK INFRASTRUCTURE

Lead Consultant / MEP Designer

Office No. 1801
Marina Plaza
Dubai marina
PO Box 27793
Tel: +971 4 365 2228
www.bw-engineering.com

Designer / Architect / Civil

L22 è una divisione di:
Lombardini22 S.p.A.
Via Lombardini 22 20143 Milano, Italia
T +39 02 36 59 62 00 F +39 02 83 20 13 97
info@l22.it www.l22.it

Structural

Studio Progetti Strutturali
Ing. Arturo Donadio
S.P.S. S.r.l. www.spssrl-mi.it
Via M. Gioia, 64 - 20125 Milano, Italia
segreteria@spssrl-mi.it T. 02/6694887

Project Title
MIL05B

Drawing Title
External Services
Sitewide Oilwater Drainage

Project Status
STAGE 3

Discipline	Status Code
MECHANICAL	**S4**

Project Number	Scale @ A0	Revision
P10504	**1:250**	**P02**

Drawing Number
MIL05B-L22-SW-SW-DR-M-90204

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